

		PCT/us- v3/22294				
A. CLASSIFI IPC 7	FICATION OF SUBJECT MATTER B04C5/103 B04C5/13					
According to	International Patent Classification (IPC) or to both national classification	ion and IPC				
	cumentation searched (classification system followed by classification BO4C	n symbols)				
Documentali	ion searched other than minimum documentation to the extent that su	ich documents are inc	cluded in the fields se	earched		
	ala base consulted during the international search (name of data base ternal, WPI Data, PAJ	e and, where practic	al, search terms used			
C. DOCUME	ENTS CONSIDERED TO BE RELEVANT					
Category °	Citation of document, with indication, where appropriate, of the rele	want passages		Relevant to daim No.		
Y	US 4 795 561 A (ASLIN DAVID J) 3 January 1989 (1989-01-03) column 2, line 3 - line 8 column 2, line 62 -column 3, line column 3, line 53 - line 56 figures 1-3	19		1-6		
Υ .	EP 0 052 042 A (AUSSENARD MICHEL) 19 May 1982 (1982-05-19) page 3, line 5 - line 24 page 4, line 11 - line 22 figure 1A	)		1–6		
Υ	US 1 753 502 A (CLARK WILLIAM G) 8 April 1930 (1930-04-08) page 1, line 89 - line 97 figures 2-4	-/		1-6		
X Furti	ther documents are listed in the continuation of box C.	X Patent fam	nily members are listed	d in annex.		
*A* document defining the general state of the art which is not considered to be of particular relevance  *E* earlier document but published on or after the international filing date  *L* document which may throw doubts on priority claim(e) or		or priority date and to underst invention  "X" document of par cannot be consinvolve an invention  "Y" document of par cannot be considocument is coments, such coments, such coments, such coments.	T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled			
'P' docum	nent published prior to the international filing date but than the priority date claimed	in the art. "&" document memi	In the art. *&* document member of the same patent family			
	e actual completion of the international search	Date of mailing	of the international s	search report		
ļ	2 December 2003	Authorized office	·			
radins and	I mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL - 2280 HV Rijswijk  Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  Fax (+31-70) 340-3016		Redelsperger, C			



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C (Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Releva	nt to claim No.
Y	US 4 072 481 A (LAVAL JR CLAUDE C) 7 February 1978 (1978-02-07) column 1, line 12 - line 16 column 3, line 49 - line 68 figures 1,2,8		1-4
Α	US 3 940 331 A (RASTATTER EDWARD L) 24 February 1976 (1976-02-24) abstract figure 2		8
			-





Information on patent family members

PCT/LJ J3/22294

Patent document dited in search report			Publication date		Patent family member(s)		, Publication date	
US 47	795561	Α	03-01-1989	NONE				
EP 00	052042	A	19-05-1982	FR EP JP	2493186 / 0052042 / 57107253 /	A2	07-05-1982 19-05-1982 03-07-1982	
US 17	753502	A	08-04-1930	NONE				
US 40	072481	Α	07-02-1978	NONE				
US 39	940331	A	24-02-1976	US CA CA DE FR GB JP SE SE	3984308 / 1081622 / 1105848 / 2547228 / 2289245 / 1529948 / 51066558 / 416449 / 7512044 /	A1 A2 A1 A1 A A B	05-10-1976 15-07-1980 28-07-1981 13-05-1976 28-05-1976 25-10-1978 09-06-1976 05-01-1981 03-05-1976	